

HIGH PERFORMANCE POWERED METAL MIXTURES
FOR SHAPED CHARGE LINERS

ABSTRACT OF THE DISCLOSURE

A liner (18) for a shaped charge (10) that utilizes a high performance powdered metal mixture to achieve improved penetration depths during the perforation of a wellbore is disclosed. The high performance powdered metal mixture includes powdered tungsten and powdered metal binder. The powdered metal binder may be selected from the group consisting of tantalum, molybdenum, lead, cooper and combination thereof. This mixture is compressively formed into a substantially conically shaped liner (18).

TOP SECRET//SI//REL TO USA, FVEY